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U. S. PATENT TEXT FILE
                    THE WEEKLY PATENT TEXT AND IMAGE DATA IS CURRENT THROUGH APRIL 27, 1999.
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     E#
                         FILE
                                                                                FREQUENCY TERM
                                                                                                                CLOMERULAEPHRITIS/BI
CLOMERULO/BI
CLOMERULO/BI
CLOMERULO/BI
CLOMERULO/BI
CLOMERULO/BI
CLOMERULOCAPSULAR/BI
CLOMERULOLOB/BI
CLOMERULOLOB/BI
CLOMERULOME/BI
CLOMERULOME/BI
CLOMERULOME/BI
CLOMERULOMEPHRITIS/BI
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     E1
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    => e
                                                                                                                GLOMERULONE PHITIS/BI
GLOMERULONE PHRAL/BI
GLOMERULONE PHRAL/BI
GLOMERULONE PHRIS/BI
GLOMERULONE PHRISIS/BI
GLOMERULONE PHRISIS/BI
GLOMERULONE PHRITIS/BI
    E13
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E15
E16
E17
E18
E19
E20
E21
E22
E23
E24
                                                                                         11
                                                                                     10
1339
    => s e2 or GLOMERULONE?
                                   27 GLOMERULO/BI
1376 GLOMERULONE?
1395 GLOMERULO/BI OR GLOMERULONE?
    L1
    => s GLOMERULNEPHRITIS or GLOMERULONE?
                                   2 GLOMERULNEPHRITIS
1376 GLOMERULONE?
1377 GLOMERULNEPHRITIS OR GLOMERULONE?
    L2
    => s chronic renal
                                20307 CHRONIC
10812 RENAL
664 CHRONIC RENAL
(CHRONIC (W) RENAL)
    => s 12 or le
                                   8216 LE
9541 L2 OR LE
    ⇒> s 12 or 13
                             1957 L2 OR L3
   L5
   => s bmp# or (((bone morphogen?)or osteogenic)(w)(protein# or polypeptide#))
                              796 EMP#
34654 BONE
1149 MORPHOGEN?
561 BONE MORPHOGEN?
562 BONE WORPHOGEN?)
782 OSTEOGENIC
84826 PROFEIN#
21611 POLYPEPTIDE#
563 ((BONE MORPHOGEN?)OR OSTEOGENIC)(W)(PROTEIN# OR POLYPEPTIDE
                                      995 BMP# OR (((BONE MORPHOGEN?)OR OSTEOGENIC)(W)(PROTEIN# OR PO
                                               EPTIDE#))
  => s 15 and 16
  L7
                                     13 L5 AND L6
  => s 17 and pd>19980101
                       215069 PD>19980101
(PD>19980101)
6 L7 AND PD>19980101
  => d bib ab 1-6
                                                5,866,693 [IMAGE AVAILABLE] LB: 1 of 6
**Feb. 2, 1999**
DNA encoding human MAD proteins
Nicholas J. Laping, West Chester, PA
SmithKline Beecham Corporation, Philadelphia, PA (U.S.
 US PAT NO:
DATE ISSUED:
TITLE:
INVENTOR:
ASSIGNEE:
 APPL-NO:
DATE FILED:
ART-UNIT:
PRIM-EXMR:
ASST-EXMR:
LEGAL-REP:
                                                 08/732,028
Oct. 16, 1996
162
                                                 162
Sheela Huff
Julie E. Reeves
William T. King, William T. Han
                                                 5,866,693 [IMAGE AVAILABLE]
  US PAT NO:
                                                                                                                                                                                  L8: 1 of 6
ABSTRACT:
Human MADr3 or MADr4 polypeptides and DNA (RNA) encoding such MADr3 or MADr4 and a procedure for producing such polypeptides by recombinant techniques is disclosed. Also disclosed are methods for utilizing such MADr3 or MADr4, or compounds which inhibit or stimulate MADr3 or MADr4 for stimulating wound healing, and treating cancers, among others, are also disclosed. Agonist and antagonists of these MAD proteins and methods of their use are also disclosed. Also disclosed are diagnostic assays for detecting diseases related to mutations in the nucleic acid sequences and altered concentrations of the polypeptides. Also disclosed are diagnostic assays for detecting mutations in the polynucleotides encoding the MADr3 or MADr4 and for detecting altered levels of the polypeptide in a host.
                                               5,834,240 [IMAGE AVAILABLE] L8: 2 of 6
**Nov. 10, 1998**
DNA encoding a transforming growth factor-.beta. receptor associated protein
Olga Bandman, Mountain View, CA
Preeti Lel, Sunnyvale, CA
Incyte Pharmaceuticals, Inc., Palo Alto, CA (U.S. corp.)
08/828,922
Mar. 28, 1997
166
Stephen Walsh
Daryl A. Bashan
Sheela-Mohan Peterson, Lucy J.Incyte Pharmaceuticals, Inc.
Billings
 US PAT NO:
DATE ISSUED:
TITLE:
 INVENTOR:
ASSIGNEE:
APPL-NO:
DATE FILED:
ART-UNIT:
PRIM-EXMR:
ASST-EXMR:
LEGAL-REP:
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1

US PAT NO:

5,834,240 [IMAGE AVAILABLE]

File 'USPAT' ENTERED AT 16:44:24 ON 09 MAY 1999

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ABSTRACT:
The present invention provides a transforming growth factor.beta.
receptor associated protein (TGFAS) and polynucleotides which identify
and encode TGFAS. The invention also provides expression vectors, host
cells, agonists, antibodies, and antagonists. The invention also provides
methods for treating disorders associated with expression of TGFAS.
               US PAT NO:
DATE ISSUED:
**Nov 3, 1998**
Method for assaying for modulators of cytokines of the TFG
.beta. superfamily
James W. Dennis, Etobicoke, Canada
Hichael Demetriou, Toronto, Canada (foreign
Corp.)
                                                                                                                                                08/854,768
May 12, 1997
182
               APPL-NO:
DATE FILED:
ART-UNIT:
PRIM-EXMR:
ASST-EXMR:
LEGAL-REP:
                                                                                                                                              182
John Ulm
Prema Mertz
Merchant, Gould, Smith, Edell, Welter & Schmidt
               US PAT NO:
                                                                                                                                              5,830,671 [IMAGE AVAILABLE]
         OS PAT NO: 5,830,671 [IMAGE AVAILABLE] L8: 3 of 6

ABSTRACT:
The invention relates to a method for assaying for the presence of a substance that modulates a cytokine of the TGF.beta. superfamily. A substance which is suspected of modulating a cytokine of the TGF.beta. superfamily and a TGF.beta. binding compound which is not a TGF.beta. superfamily and a TGF.beta. binding compound which is not a TGF.beta. superfamily with the contains a TRHI domain, or a portion or mimetic conditions where the compound contained is which with the cytokine are capable of forming complex mimetic thereof, and the cytokine are capable of forming complex mimetic thereof, and the cytokine are assayed and compared with the compound of a TGF.beta. receptor and which contains the TRHI domain or a portion, or a mimetic thereof, and a pharmaceutically acceptable carrier auxiliary or excipient and to methods of treatment using the composition. Further the invention relates to a method of enhancing the activity of growth factors.
                                                                                                                                           5,821,227 [IMAGE AVAILABLE] L8: 4 of 6

**Oct. 13, 1998**
Modulators of cytokines of the tqf .beta. superfamily
James W. Dennis, Ecobicoke, Canada
Michael Demetriou, Toronto, Canada
Mount Sinai Hospital Corporation, Toronto, Canada (foreign
corp.)
             US PAT NO:
DATE ISSUED:
TITLE:
INVENTOR:
             ASSIGNEE:
                                                                                                                                           Mount Sinal Hospital Corporation, Toronto, Canad

COTP.]

1907 183,926

Jun. 7, 1995

John Ulm

Perma Mertz

Merchant, Gould, Smith, Edell, Welter & Schmidt
           APPL-NO:
DATE FILED:
ART-UNIT:
PRIM-EXMR:
ASST-EXMR:
LEGAL-REP:
             US PAT NO:
                                                                                                                                             5,821,227 [IMAGE AVAILABLE]
       OS PAT NO: 5,821,227 [IMAGE AVAILABLE] L8: 4 of 6

ABSTRACT:
The invention relates to a method for assaying for the presence of a substance that modulates a cytokine of the TGF. beta. superfamily. A substance which is suspected of modulating a cytokine of the TGF. beta. substance which is suspected of modulating a cytokine of the TGF. beta. seperfamily and a TGF. beta. sinding compound which is not a TGF. beta. seperfamily and a TGF. beta of the TGF. beta superfamily under conditions where the compound oxine of the TGF. beta. superfamily under conditions where the compound complex insertion thereof, and the cytokine are capable of forming a complex complexes, free compound and/or cytokine are assayed and compared without the terms of the total superfamily under also relates to a composition comprising at least one compared within its not a TGF. beta. receptor and which contains the TRHI domain or a portion, or a mimetic thereof, and a pharmaceutically acceptable carrier auxiliary or excipient and to methods of treatment using the composition. Further the invention relates to a method of enhancing the activity of growth factors.
                                                                                                                                     5,807,981 [IMAGE AVAILABLE] L8: 5 of 6
**Sep. 15, 1998**
Peptides which are cleaved by C-proteinase
Mitch Brenner, Moutain View, CA
FibroGen Inc., South San Francisco, CA (U.S. corp.)
08/572,225
Dec. 13, 1995
L62
Eric Grime-
       US PAT NO:
DATE ISSUED:
TITLE:
INVENTOR:
ASSIGNEE:
APPL-NO:
DATE FILED:
ART-UNIT:
PRIM-EXMR:
ASST-EXMR:
LEGAL-REP:
                                                                                                                                           162
Eric Grimes
Elizabeth Slobodyansky
Pennie & Edmonds LLP
                                                                                                                                         5,807,981 [IMAGE AVAILABLE]
   ABSTRACT:
The present invention is directed to the isolation and identification of the nucleic acid sequence encoding C-proteinase, the recognition of such processes and sequence encoding C-proteinase, the recognition of such processes and set of the sequence of the seq
                                                                                                                                 5,731,200 [IMAGE AVAILABLE] L0: 6 of 6
**Mar. 24, 1998**
Isolated nucleic acid encoding receptor-like TGF-.beta.1
binding protein
binding protein
binding protein
binding protein
Color of the color of 
     US PAT NO:
DATE ISSUED:
TITLE:
     INVENTOR:
   ASSIGNEE:
   APPL-NO:
DATE FILED:
ART-UNIT:
PRIM-EXMR:
ASST-EXMR:
LEGAL-REP:
   US PAT NO:
                                                                                                                                   5,731,200 [IMAGE AVAILABLE]
ABSTRACT:
The invention relates to a family of substantially pure, receptor like TGF-.beta.1 binding glycoproteins. These molecules are characterized by molecular masses of 160 kd, 70-80 kd, and 30-40 kd as determined by SDS-PAEC, and the ability to bind the TGF-.beta.1 molecule. This family of molecules is useful in identifying and/or quantifying TGF-.beta.1 in a sample, as well as inhibiting its effect on cells. Also described are nucleic acid sequences which code for the protein monomer making up the molecules.
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(FILE 'USPAT' ENTERED AT 16:44:24 ON 09 MAY 1999)
E GLOMERULO?
1395 S E2 OR GLOMERULONE?
1377 S GLOMERULNEPHRITIS OR GLOMERULONE?

L8: 2 of 6

=> d his

```
664 S CHRONIC RENAL
9541 S 12 OR LE
1957 S 12 OR L3
995 S BMP# OR (((BONE MORPHOGEN?)OR OSTEOGENIC)(W)(PROTEIN# OR
                                       13 S L5 AND L6
6 S L7 AND PD>19980101
         => select
         ENTER ANSWER SET L#, TERMSET L# or (L8):18
        ENTER ANSWER NUMBER OR RANGE (1-):1-
        ENTER DISPLAY FORMAT (TI) OR ?:pn
        E1 THROUGH E6 ASSIGNED
        => s e1-e6
                                    1 "5,731,200"/PN
(15731200/PN)
1 "5,807,981"/PN
(15807981/PN)
(15807981/PN)
(15821227"/PN
(15821227"/PN)
(15821227"/PN)
(15830671/PN)
(15830671/PN)
(15830671/PN)
1 "5,834,240"/PN
(15834240/PN)
(15834240/PN)
(15836693)/PN)
(15866693)/PN)
(15866693)/PN OR "5,807,981"/PN OR "5,821,227"/PN OR "5,8
                                         671"/PN OR "5,834,240"/PN OR "5,866,693"/PN)
       -> s 19 and 15
                                  6 L9 AND L5
       => d kwic 1-
       US PAT NO:
                                        **5,866,693** [IMAGE AVAILABLE]
                                                                                                                                        L10: 1 of 6
      SUMMARY:
      BSUM(8)
     Therefore, or EMP signaling are indicated [see, e.g., Eppert et al, Cell, 86:543-552 (Aug. 23, 1996)]. Such disorders include, without limitation, **chronic** **renal** failure, scarring, colorectal carcinoma, and cardiovascular disease.
      BSUM (29)
     In . of other downstream proteins, and interaction with cis elements. Antagonists of MADr3 activity can be used in the treatment of "chronic'" "frenel" failure, acute renal failure, wound healing and prevention of scar formation, arthritis, osteoporosis, atherosclerosis, polycystic kidney disease and congestive heart.
US PAT NO: "5,834,240°" [IMAGE AVAILABLE] L10: 2 of 6
     DETDESC:
     DETD(8A)
    In . . . decreased TGFAS expression including, but not limited to, sepis, toxic shock, autoimmune thyroiditis, polymyositis, lupus erythematosis, osteoporosis, ulcerative colitis, asthma, "glomerulonephritis", osteoarthritis, vitreoretinopathy, wound healing. US PAT NO: "5,830,671* [IMAGE AVAILABLE] L10: 3 of 6
    SUMMARY:
    BSUM(20)
    A . . . al., Nature 346:281, 1990). Decorin has also been found to antagonize the action of TGF.beta. in vivo using an experimental **glomerulonephritis** model (Border et al., Nature 360:361, 1992).
    DETDESC:
    DETD (46)
   The ... The well-characterized pig model of radiation induced fibrosis described in Martin et al. Radiation Research 134(1)63, 1993, and the experimental **glomerulonephritis** model described in Border et useful in.

US PAT NO: **5,821,227** [IMAGE AVAILABLE] 1.10: 4 of 6
                               **5,821,227** [IMAGE AVAILABLE]
                                                                                                                                   L10: 4 of 6
   SUMMARY:
   BSUM (20)
   A . . . al., Nature 346:281, 1990). Decorin has also been found to antagonize the action of TGF.beta. in vivo using an experimental **glomerulonephritis** model (Border et al., Nature 360:361, 1992).
   DETDESC:
   DETD(46)
 SUMMARY:
  BSUM (23)
 An . fibrosis, pericentral fibrosis, hepatitis, dermatofibroma, billary cirrhosis, alcoholic cirrhosis, acute pulmonary fibrosis, didopathic pulmonary fibrosis, acute respiratory distress syndrome, kidney fibrosis/"glomerulonephritis*, kidney fibrosis/diabetic nephropathy, scleroderma/systemic, scleroderma/local, keloids, hypertrophic scars, severe joint adhesions/arthritis, myelofibrosis, comeal scarring, cystic fibrosis, muscular dystrophy (duchenne's), cardiac.
 L10: 6 of 6
 SUMMARY:
Originally. The molecules have a dramatic effect on accumulation of extracellular matrix proteins (Massague, supra), and have been implicated in pathogenic "glomerulonephritis" (Border et al., Nature 346: 371-374 (1990); liver cirrhosis (Castilla et al., N. Eng. J. Med. 324: 933-940 (1990)); and.
=> d bsum(8)
US PAT NO:
                                  **5,866,693** [IMAGE AVAILABLE]
                                                                                                                                 L10: 1 of 6
SUMMARY:
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Therefore, selective antagonists of the MAD isoforms are anticipated to

BSUM(8)

be beneficial in many diseases where selective interruption of TGF-beta or BMP signaling are indicated [see, e.g., Eppert et al, Cell, 86:543-552 (Aug. 23, 1996)]. Such disorders include, without limitation, "chronic" "trenal" failure, scarring, colorectal carcinoma, and cardiovascular disease.

=> d his; log y

U.S. Patent & Trademark Office LOGOFF AT 16:53:51 ON 09 MAY 1999

Connection closed by remote host